

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0654.0630002	APPLICATION NO. 09/069,847
	APPLICANT HAN <i>et al.</i>	
	FILING DATE April 30, 1998	GROUP 1634

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	4,683,194	07/28/1987	Saiki <i>et al.</i>	435	6	03/28/1985
	AB1	4,683,195	07/28/1987	Mullis <i>et al.</i>	435	6	02/07/1987
	AC1	4,683,202	07/28/1987	Mullis <i>et al.</i>	435	91	10/25/1985
	AD1	4,876,187	10/24/1989	Duck <i>et al.</i>	435	6	12/05/1985
	AE1	4,996,143	02/26/1991	Heller <i>et al.</i>	435	6	04/13/1990
	AF1	5,011,769	04/30/1991	Duck <i>et al.</i>	435	6	04/29/1988
	AG1	5,538,848	07/23/1996	Livak <i>et al.</i>	435	6	11/16/1994
	AH1	5,723,591	03/03/1998	Livak <i>et al.</i>	536	22.1	11/15/1995
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	WO 89/09284	10/05/1989	WIPO			Yes No
	AM1	WO 89/09835	10/19/1989	WIPO			Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	1	Beecham, J.M., <i>et al.</i> , "Global And Target Analysis of Complex Decay Phenomena," <i>Anal. Instrum.</i> 14(384):379-402 (1985)
	AS	1	Brown, P.O., <i>et al.</i> , "Retroviral integration: Structure of the initial covalent product and its precursor, and a role for the viral IN protein," <i>Proc. Natl. Acad. Sci. USA</i> 86:2525-2529 (1989)
	AT	1	Brumbaugh, J.A., <i>et al.</i> , "Continuous, on-line DNA sequencing using oligodeoxynucleotide primers with multiple fluorophores," <i>Proc. Natl. Acad. Sci. USA</i> 85:5610-5614 (1988)

EXAMINER		DATE CONSIDERED	5/1/94
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<i>jm</i>	AR	2	Bushman, F.D., <i>et al.</i> , "Activities of human immunodeficiency virus (HIV) integration protein <i>in vitro</i> : Specific cleavage and integration of HIV DNA," <i>Proc. Natl. Acad. Sci. USA</i> 88:1339-1343 (1991)
<i>jm</i>	AS	2	Cardullo, R.A., <i>et al.</i> , "Detection of nucleic acid hybridization by nonradioactive fluorescence resonance energy transfer," <i>Proc. Natl. Acad. Sci. USA</i> 85:8790-8794 (1988)
<i>jm</i>	AT	2	Carraway, K.L., <i>et al.</i> , "Visualization of Epidermal Growth Factor (EGF) Receptor Aggregation in Plasma Membranes by Fluorescence Resonance Energy Transfer," <i>J. Biol. Chem.</i> 264(15):8699-8707 (1989)

EXAMINER <span style="float: right;"><i>M I</i></span>	DATE CONSIDERED <span style="float: right;"><i>5/1/98</i></span>
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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

72	AR	3	Chen, R.F., and Scott, C.H., "Special Review: Atlas of Fluorescence Spectra and Lifetimes of Dyes Attached to Protein," <i>Anal. Lett.</i> 18(A4):393-421 (1985)
72	AS	3	Chollett, A., and Kawashima, E.H., "Biotin-labeled synthetic oligodeoxyribonucleotides: chemical synthesis and uses as hybridization probes," <i>Nucleic Acids Res.</i> 13(5):1529-1541 (1985)
72	AT	3	Chow <i>et al.</i> , "Reversal of Integration and DNA Splicing Mediated by Integrase of Human Immunodeficiency Virus," <i>Science</i> 255:723-726 (1992)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>AW</i>	AR	4	Chu, B.C.F., and Orgel, L.E., "Laboratory Methods: Detection and Specific DNA Sequences With Short Biotin-Labeled Probes," <i>DNA</i> 4(4):327-331 (1985)
<i>AM</i>	AS	4	Clavel, F., <i>et al.</i> , "Genetic recombination of Human Immunodeficiency Virus," <i>J. Virol.</i> 63(3):1455-1459 (1989)
<i>AT</i>	AT	4	Clegg, R.M., <i>et al.</i> , "Fluorescence Resonance Energy Transfer Analysis of the Structure of the Four-Way DNA Junction," <i>Biochem.</i> 31:4846-4856 (1992)



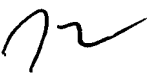
EXAMINER <span style="float: right;"><i>MA 12</i></span>	DATE CONSIDERED <i>5/10/98</i>
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>5</u>	Connolly, B.A., "The synthesis of oligonucleotides containing a primary amino group at the 5'-terminus," <i>Nucleic Acids Res.</i> 15(7):3131-3139 (1987)
	AS	<u>5</u>	Conrad, R.H., and Brand, L., "Intramolecular Transfer of Excitation from Tryptophan to 1-Dimethylaminonaphthalene-5-sulfonamide in a Series of Model Compounds," <i>Biochemistry</i> 7(2):777-787 (1968)
	AT	<u>5</u>	Cooper, J.P., and Hagerman, P.J., "Analysis of Fluorescence Energy Transfer in Duplex and Branched DNA Molecules," <i>Biochemistry</i> 29:9261-9268 (1990)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

JL	AR	6	Craigie, R., <i>et al.</i> , "The IN Protein of Moloney Murine Leukemia Virus Processes the Viral DNA Ends and Accomplishes Their Integration In Vitro," <i>Cell</i> 62:829-837 (1990)
AR	AS	6	Craigie, R., <i>et al.</i> , "A rapid <i>in vitro</i> assay for HIV DNA integration," <i>Nucleic Acids Res.</i> 19(10):2729-2734 (1991)
R	AT	6	Donehower, L.A., <i>et al.</i> , "A mutant murine leukemia virus with a single missense codon <i>pol</i> is defective in a function affecting integration," <i>Proc. Natl. Acad. Sci. USA</i> 81:6461-6465 (1984)

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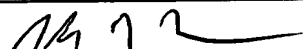
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	Z	Dreyer, G.B., and Dervan, P.B., "Sequence-specific cleavage of single stranded DNA: Oligodeoxynucleotide-EDTA•Fe(II)," <i>Proc. Natl. Acad. Sci. USA</i> 82:968-972 (1985)
AS	Z	Engelman, A., <i>et al.</i> , "HIV-1 DNA Integration: Mechanism of Viral DNA Cleavage and DNA Strand Transfer," <i>Cell</i> 67:1211-1221 (1991)
AT	Z	Forster, V.T., "Zwischenmolekulare Energiewanderung und Fluoreszenz," <i>Ann. Phys. (Leipzig)</i> 2:55-75 (1948)

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	AN						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>8</u>	Freifelder, D., Molecular Biology, Second Edition, Jones and Bartlett Publishers, Boston, Massachusetts, pp. 138 (1983)
	AS	<u>8</u>	Fujiwara, <i>et al.</i> , "Retroviral DNA Integration: Structure of an Integration Intermediate," <i>Cell</i> 54:497-504 (1988)
	AT	<u>8</u>	Fujiwara, T., <i>et al.</i> , "Integration of mini-retroviral DNA: A cell-free reaction for biochemical analysis of retroviral integration," <i>Proc. Natl. Acad. Sci. USA</i> 86:3065-3069 (1989)

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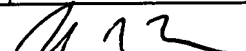
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	AP						Yes No

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AL	AR	2	Ghosh, S.S., <i>et al.</i> , "Real time kinetics of restriction endonuclease cleavage monitored by fluorescence resonance energy transfer," <i>Nucleic Acids Res.</i> 22:3155-3159 (1994)
AL	AS	2	Gingeras, <i>et al.</i> , "A spectrofluorometric method for measurement of restriction endonuclease activity based on the fluorescence polarization," <i>J. Biol. Chem. Suppl.</i> 17(C):173, Abstract No. K304 (February 1993)
AL	AT	2	Glasner, <i>et al.</i> , "Fast quantitative assay of sequence-specific endonuclease activity based on DNA sequencer technology," <i>Biol. Chem.</i> 373:1223-1225 (December 1992)

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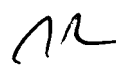
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	AM					Yes No
	AN					Yes No
	AO					Yes No
	AP					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	10	Glazer, A.N., <i>et al.</i> , "A stable double-stranded DNA-ethidium homodimer complex: Application to picogram fluorescence detection of DNA in agarose gels," <i>Proc. Natl. Acad. Sci. USA</i> 87:3851-3855 (1990)
	AS	10	Grandgenett, D.P., <i>et al.</i> , "Unraveling Retrovirus Integration," <i>Cell</i> 60:3-4 (1990)
	AT	10	Hippenmeyer, P.J., <i>et al.</i> , "Requirement of Avian Retrovirus pp32 DNA Binding Protein Domain for Replication," <i>Virology</i> 137:358-370 (1984)

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	AO						Yes No
	AP						Yes No

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AM	AR	11	Jablonski, E., <i>et al.</i> , "Preparation of oligonucleotide-alkaline phosphatase conjugates and their use as hybridization probes," <i>Nucleic Acids Res.</i> 14(15):6115-6128 (1986)
12	AS	11	Jeltsch, A., <i>et al.</i> , "A Fast and Accurate Enzyme-Linked Immunosorbent Assay for the Determination of the DNA Cleavage Activity of Restriction Endonucleases," <i>Anal. Biochem.</i> 213:234-240 (1993)
12	AT	11	Katz, R.A., <i>et al.</i> , "Requirement for a conserved serine in both processing and joining activities of retroviral integrase," <i>Proc. Natl. Acad. Sci. USA</i> 89:6741-6745 (1992)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	12	Katzman, M., <i>et al.</i> , "The Avian Retroviral Integration Protein Cleaves the Terminal Sequences of Linear Viral DNA at the In Vivo Sites of Integration," <i>J. Virol.</i> 63(12):5319-5327 (1989)
AS	12	Knutson, J.R., <i>et al.</i> , "Simultaneous Analysis of Multiple Fluorescence Decay Curves: A Global Approach," <i>Chem. Phys. Lett.</i> 102(6):501-507 (1983)
AT	12	Lee, S.P., <i>et al.</i> , "A Fluorometric Assay for DNA Cleavage Reactions Characterized with <i>Bam</i> HI Restriction Endonuclease," <i>Anal. Biochem.</i> 220:377-383 (1994)

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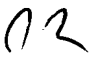

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	AP					Yes No

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	AR	<u>13</u>	Lee, S.P., <i>et al.</i> , "Characterization of endonucleolytic activity of HIV-1 integrase using a fluorogenic substrate," <i>Anal. Biochem.</i> 227:295-301 (1995)
	AS	<u>13</u>	Matayoshi, E.D., <i>et al.</i> , "Novel Fluorogenic Substrates for Assaying Retroviral Proteases by Resonance Energy Transfer," <i>Science</i> 247:954-958 (1990)
	AT	<u>13</u>	Murchie, A.I.H., <i>et al.</i> , "Fluorescence energy transfer shows that the four-way DNA junction is a right-handed cross of antiparallel molecules," <i>Nature</i> 341:763-766 (1989)

EXAMINER <span style="font-size: 1.5em; font-family: cursive;">MIR</span>	DATE CONSIDERED <span style="font-size: 1.2em; font-family: cursive;">5/13/98</span>
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>14</u>	Ofengand, J., <i>et al.</i> , "Use of photochemically induced cross-linking as a conformational probe of the tertiary structure of certain regions in transfer ribonucleic acid," <i>Biochem.</i> 12:1977-1984 (1973)
	AS	<u>14</u>	Panganiban, A.T., <i>et al.</i> , "The retrovirus <i>pol</i> gene encodes a product required for DNA integration: Identification of a retrovirus <i>int</i> locus," <i>Proc. Natl. Acad. Sci. USA</i> 81:7885-7889 (1984)
	AT	<u>14</u>	Ruth, J.L., <i>et al.</i> , "Linker Arm Nucleotide Analogs Useful in Oligonucleotide Synthesis," <i>DNA</i> 4:93 (1985)

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0654.0630002	APPLICATION NO. 09/069,847
APPLICANT HAN <i>et al.</i>		
FILING DATE April 30, 1998		GROUP 1634

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AN					Yes No
	AO					Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	15	Ruth, J., <i>et al.</i> , "DNA Affinity Supports Using Modified Oligonucleotides Attached to Nylon Membranes, <i>Fed. Proc.</i> 44:1622, Abstract 7088 (1985)
	AS	15	Rychlik, W., and Rhoads, R.E., "A computer program for choosing optimal oligonucleotides for filter hybridization, sequencing and <i>in vitro</i> amplification of DNA," <i>Nucleic Acids Res.</i> 17(21):8543-8551 (1989)
	AT	15	Schwartzberg, P., <i>et al.</i> , "Construction and Analysis of Deletion Mutations in the <i>pol</i> Gene of Moloney Murine Leukemia Virus: A New Viral Function Required for Productive Infection," <i>Cell</i> 37:1043-1052 (1984)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>AM</i>	AR	<u>16</u>	Sherman, P.A., and Fyfe, J.A., "Human immunodeficiency virus integration protein expressed in <i>Escherichia coli</i> possesses selective DNA cleaving activity," <i>Proc. Natl. Acad. Sci. USA</i> 87:5119-5123 (1990)
<i>AM</i>	AS	<u>16</u>	Smith, J.S., <i>et al.</i> , "Analysis of Long Terminal Repeat Circle Junctions of Human Immunodeficiency Virus Type 1," <i>J. Virol.</i> 64:6286-6290 (1990)
<i>AM</i>	AT	<u>16</u>	Spencer, R.D., and Weber, G., "Influence of Brownian Rotations and Energy Transfer upon the Measurements of Fluorescence Lifetime," <i>J. Chem Phys.</i> 52(4):1654-1663 (1970)

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	FILING DATE April 30, 1998	GROUP 1634

U.S. PATENT DOCUMENTS							
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	AM						Yes No
	AN						Yes No
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AR	17	Stryer, L., and Haugland, R.P., "Energy transfer: a spectroscopic ruler," <i>Proc. Natl. Acad. Sci. USA</i> 58:719-726 (1967)
AS	17	Stryer, L., "Fluorescence energy transfer as a spectroscopic ruler," <i>Ann. Rev. Biochem.</i> 47:819-846 (1978)
AT	17	Suggs, S.V., <i>et al.</i> , "Use of synthetic Oligodeoxyribonucleotides for the isolation of specific cloned DNA sequences," in <i>ICN-UCLA Symposium in Development of Biology Using Purified Genes</i> , Brown, ed., Academic Press, Inc., New York, pp. 683-693 (1981)

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	APPLICANT HAN <i>et al.</i>	
	FILING DATE April 30, 1998	GROUP 1634




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	AR	<u>18</u>	Takahashi, M., <i>et al.</i> , "Use of a fluorescent DNA analog for fluorometric detection of DNase activity," <i>Anal. Biochem.</i> 198:246-249 (1991)
	AS	<u>18</u>	Telser, J., <i>et al.</i> , "Synthesis and Characterization of DNA Oligomers and Duplexes Containing Covalently Attached Molecular Labels: Comparison of Biotin, Fluorescein, and Pyrene Labels by Thermodynamic and Optical Spectroscopic Measurements," <i>J. Am. Chem. Soc.</i> 111:6966-6976 (1989)
	AT	<u>18</u>	Terry, R., <i>et al.</i> , "Properties of Avian Sarcoma-Leukosis Virus pp32-Related <i>pol</i> -Endonucleases Produced in <i>Escherichia coli</i> ," <i>J. Virol.</i> 62(7):2358-2365 (1988)

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	AO						Yes No
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A12	AR	19	Varmus, H., and Brown, P., "Retroviruses," in <i>Mobile DNA</i> , Berg, D.E., and Howe, M.M., eds., American Society for Microbiology, Washington, D.C., pp. 53-108 (1989)
A2	AS	19	Waters, T.R., and Connolly, B.A., "Continuous Spectrophotometric Assay for Restriction Endonucleases Using Synthetic Oligodeoxynucleotides and Based on the Hyperchromic Effect," <i>Anal. Biochem.</i> 204:204-209 (1992)
A2	AT	19	Wilson, G.A., and Young, F., "Isolation of a Sequence-specific Endonuclease ( <i>Bam</i> I) form <i>Bacillus amyloliquefaciens</i> H," <i>J. Mol. Biol.</i> 97:123-125 (1975)

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FORM PTO-1449 <b>INFORMATION DISCLOSURE STATEMENT</b>	ATTY. DOCKET NO. 0654.0630002	APPLICATION NO. 09/069,847
APPLICANT HAN <i>et al.</i>		
FILING DATE April 30, 1998		GROUP 1634

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AL						Yes No
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AN						Yes No
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AR	20	Wu, P., and Brand, L., "Resonance Energy Transfer: Methods and Applications," <i>Anal. Biochem.</i> 218:1-13 (1994)
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<b>INFORMATION DISCLOSURE CITATION</b> MAR 04 1999 P&T-1449 				ATTORNEY'S DKT No. 010091-035	APPLICATION No. 09/069,847		
				APPLICANT Myun Ki HAN et al.			
				FILING DATE April 30, 1998	GROUP 1634		
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
172	5,800,996	09/01/98	Lee et al.	—	—		
	5,210,015	05/11/93	Gelfand et al.	—	—		
	5,547,861	08/20/96	Nadeau et al.	—	—		
	5,593,867	01/14/97	Walker et al.	—	—		
	5,691,146	11/25/97	Mayrand	—	—		
	5,846,726	12/08/98	Nadeau et al.	—	—		
	5,716,784	02/10/98	Di Cesare	—	—		
	5,593,867	01/14/97	Walker et al.	—	—		
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	5,525,711	06/11/96	Hawkins et al.	—	—		
	5,763,181	06/09/98	Han et al.	—	—		
<b>FOREIGN PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No
172	WO 98/26093	06/18/98	International	—	—		
r2	Hei 5-15439	03/01/93	Japan	—	—		
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
EXAMINER <span style="font-size: 1.5em; font-family: cursive;">M 12</span>				DATE CONSIDERED <span style="font-size: 1.5em; font-family: cursive;">5/13/99</span>			

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